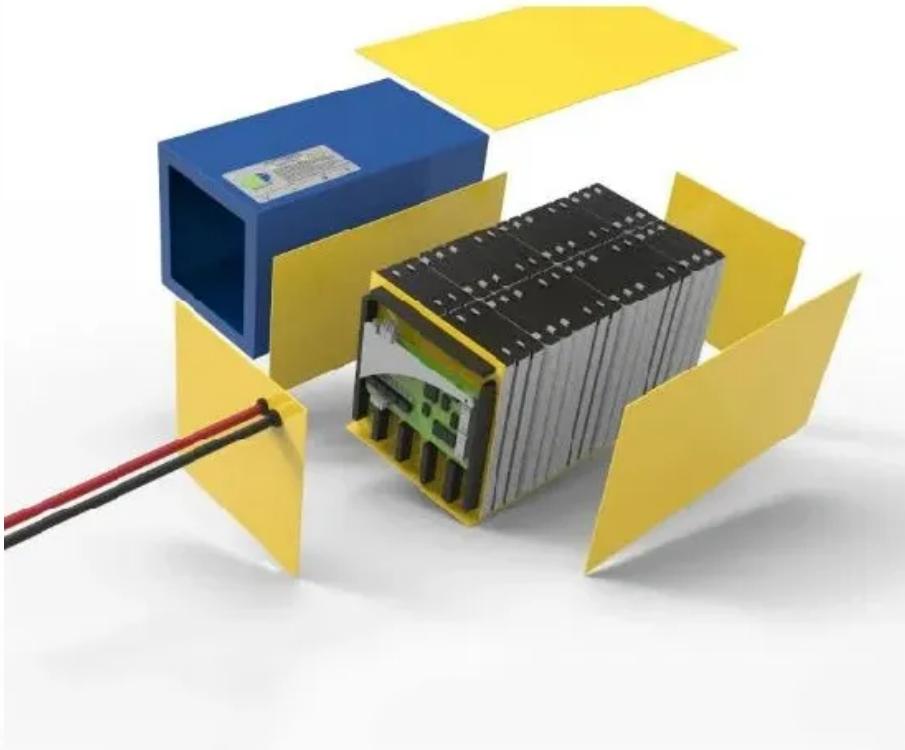


The most economical solar energy storage



Overview

Can concentrating solar power be integrated with thermal energy storage?

Concentrating solar power (CSP), when integrated with thermal energy storage (TES), can address both intermittency and storage needs by providing dispatchable renewable electricity.

How flexible is a solar energy storage system?

The thermal energy storage system is the main driver for the high flexibility of CSP systems. Primarily due to the stochasticity of the solar resource, CSP plants without storage operate with capacity factors in the range of 22-28 %, depending on technology and location .

Is thermal energy storage economically attractive?

Overall, thermal energy storage is now universally viewed as economically attractive for maximizing revenue and competitiveness. Further advancements in storage materials, systems, and integration will support even higher capacity factors exceeding 60 %.

What is thermal energy storage (TES)?

Thermal energy storage (TES) systems can also be integrated, typically using molten salts, to store excess heat for later electricity generation . By decoupling the collection and storage of solar energy, TES enables CSP plants to cost-effectively dispatch power on demand irrespective of sunlight conditions.

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The economics of concentrating solar power (CSP): ...

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